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SEQUENCE LISTING

<110> PROTEIN SPECIALTIES LTD.
HSC RESEARCH AND DEVELOPMENT LIMITED PARTNERSHIP

<120> SELF-ALIGNING PEPTIDES MODELED ON HUMAN ELASTIN AND
OTHER FIBROUS PROTEINS

<130> 041082/0112

<140> PCT/US00/17829

<141> 2000-06-29

<150> 09/340,736

<151> 1999-06-29

<160> 11

<170> PatentIn Ver. 2.1

<210> 1

<211> 731

<212> PRT

<213> Homo sapiens

<400> 1

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe
1 5 10 15

Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
20 25 30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
35 40 45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
50 55 60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala
65 70 75 80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
85 90 95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
100 105 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
115 120 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
130 135 140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
145 150 155 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
165 170 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
 180 185 190
 Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
 195 200 205
 Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val
 210 215 220
 Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
 225 230 235 240
 Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
 245 250 255
 Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
 260 265 270
 Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
 275 280 285
 Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
 290 295 300
 Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
 305 310 315 320
 Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
 325 330 335
 Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
 340 345 350
 Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
 355 360 365
 Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
 370 375 380
 Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Gly Val Gly Gly Val
 385 390 395 400
 Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
 405 410 415
 Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala
 420 425 430
 Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
 435 440 445
 Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
 450 455 460
 Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
 465 470 475 480

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Ala Ile Gly Pro Gly
 485 490 495
 Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
 500 505 510
 Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly
 515 520 525
 Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
 530 535 540
 Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Gly Ala Asp Glu
 545 550 555 560
 Gly Val Arg Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp Pro Ser
 565 570 575
 Ser Ser Gln His Leu Pro Ser Thr Pro Ser Ser Pro Arg Val Pro Gly
 580 585 590
 Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly
 595 600 605
 Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly
 610 615 620
 Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala
 625 630 635 640
 Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly
 645 650 655
 Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly
 660 665 670
 Ile Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly
 675 680 685
 Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val
 690 695 700
 Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala
 705 710 715 720
 Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
 725 730

<210> 2

<211> 200

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 2

Phe Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly
 1 5 10 15
 Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val
 20 25 30
 Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys
 35 40 45
 Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala Lys
 50 55 60
 Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val
 65 70 75 80
 Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro
 85 90 95
 Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
 100 105 110
 Ala Pro Ala Ile Gly Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala
 115 120 125
 Ala Lys Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala
 130 135 140
 Ala Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro
 145 150 155 160
 Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu
 165 170 175
 Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val
 180 185 190
 Gly Val Ala Pro Ala Ile Gly Pro
 195 200

<210> 3

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 3

Lys Ala Ala Lys

1

<210> 4

<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 4
Lys Ala Ala Ala Lys
1 5

<210> 5
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 5
Pro Gly Val Gly Val Ala
1 5

<210> 6
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 6
Val Pro Gly Val Gly
1 5

<210> 7
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 7
Val Pro Gly Gly
1

<210> 8
<211> 30
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 8

Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly
 1 5 10 15

Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr
 20 25 30

<210> 9

<211> 117

<212> PRT

<213> Homo sapiens

<400> 9

Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly Val
 1 5 10 15

Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly
 20 25 30

Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys Tyr
 35 40 45

Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala
 50 55 60

Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val Gly
 65 70 75 80

Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro Gly
 85 90 95

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala
 100 105 110

Pro Ala Ile Gly Pro
 115

<210> 10

<211> 118

<212> PRT

<213> Homo sapiens

<400> 10

Phe Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly
 1 5 10 15

Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val
 20 25 30

Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys
 35 40 45

Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala Lys
50 55 60

Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val
65 70 75 80

Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro
85 90 95

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
100 105 110

Ala Pro Ala Ile Gly Pro
115

<210> 11

<211> 199

<212> PRT

<213> Homo sapiens

<400> 11

Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly Val
1 5 10 15

Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly
20 25 30

Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys Tyr
35 40 45

Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Lys Ala
50 55 60

Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val Gly
65 70 75 80

Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro Gly
85 90 95

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala
100 105 110

Pro Ala Ile Gly Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala
115 120 125

Lys Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala
130 135 140

Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly
145 150 155 160

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala
165 170 175

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Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
180 185 190

Val Ala Pro Ala Ile Gly Pro
195